

Amendments to the Claims:

Please cancel Claim 8, add new Claims 11-13, and rewrite Claims 1 and 9 as follows:

1. (Currently Amended) A plastic optical fiber end face treatment method comprising: pressing a core end face of a plastic optical fiber end intermittently on a mold heated to a certain temperature to soften and fuse the core end face and thereby transfer a transfer face of the mold on the core end face;

removing a cover of the plastic optical fiber end to expose the core end face; and

chamfering a peripheral portion of clad of the core end face of the plastic optical fiber end to remove said peripheral portion of clad of the core end face, the chamfering comprising cutting the peripheral portion of the clad of the core end face.

2. (Previously Presented) The plastic optical fiber end face treatment method as claimed in claim 1 further comprising;

separating the core end face from the mold and cooling the core end face naturally, and

intermittently repeating the pressing/separating between the core end face and the transfer face of the mold to deform a shape of the core end face gradually and to transfer the transfer face of the mold.

3. (Previously Presented) The plastic optical fiber end face treatment method as claimed in claim 1, wherein the core end face is formed in a lens face shape.

4. (Cancelled) The plastic optical fiber end face treatment method as claimed in claim 2, further comprising removing a cover of the plastic optical fiber end to expose the core end face.

5. (Cancelled) The plastic optical fiber end face treatment method as claimed in claim 4, further comprising removing a clad of the core end face of the plastic optical fiber end.

6. (Withdrawn) An end face treatment device for treating a core end face of a plastic optical fiber end comprising:

a chuck member to fix a plastic optical fiber end;

a guide member to guide a core end face of the plastic optical fiber end;

a mold having a transfer face to treat the core end face in a form of a predetermined shape;

a heating unit to heat the mold to a certain temperature; and

a moving unit to move the core end face of the plastic optical fiber end and the transfer face of the mold to a position where both are pressed into each other and subsequently separated,

wherein;

the plastic optical fiber end is fixed by the chuck member and the guide member, and

the mold is heated by the heating unit, the moving unit is reciprocated repeatedly to thereby transfer the transfer face of the mold on the core end face gradually.

7. (Previously Presented) The plastic optical fiber end face treatment method as claimed in claim 2, wherein the core end face is formed in a lens face shape.

8. (Cancelled)

9. (Currently Amended) The plastic optical fiber end face treatment method as claimed in claim 7₁, wherein cutting the core end face further comprises utilizing a cutter to cut the peripheral portion of the clad of the core end face.

10. (Previously Presented) The plastic optical fiber end face treatment method as claimed in claim 1, wherein chamfering further comprises applying a grinding stone to the clad to remove the peripheral portion of the clad of the core end face.

11. (New) A plastic optical fiber end face treatment method comprising:

pressing a core end face of a plastic optical fiber end is pressed intermittently on a mold heated to a certain temperature to soften and fuse the core end face and thereby transfer a transfer face of the mold on the core end face;

intermittently repeating the pressing/separating between the core end face and the transfer face of the mold to deform a shape of the core end face gradually and to transfer the transfer face of the mold;

separating the core end face from the mold and cooling the core end face naturally;

removing a cover of the plastic optical fiber end to expose the core end face; and

chamfering a peripheral portion of clad of the core end face of the plastic optical fiber end by utilizing a cutter to cut the peripheral portion of the clad of the core end face and removing the peripheral portion of clad of the core end face.

12. (New) The plastic optical fiber end face treatment method as claimed in claim 11, wherein the core end face is formed in a lens face shape.

13. (New) The plastic optical fiber end face treatment method as claimed in claim 11, wherein chamfering further comprises applying a grinding stone to the clad.